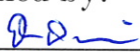


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Denali Training Fund Final Report

Funds for this project are provided by the USDOL and the Denali Commission and managed, in partnership, by the Alaska Department of Labor and Workforce Development.

Name of Organization: Southwest Alaska Vocational & Education Center	
Name of Project: Heavy Equipment	
Reporting Period: Final Report for Training that Occurred May 5 – 24, 2008	
Contact Person: Eldon R. Davidson	
Contact Number: (907) 246-4600	Email Address: eldon@savec.org
Award Year: 2008	Award Number: 8-214
Original Amount Awarded: \$190,000	Final Expenditures: \$200,178
Certification: I certify that the information in this report is current, correct and true and in accordance with the terms and conditions of the agreement.	
Signed by:  *Dated <u>11-3-2008</u>	
<small>*An earlier final report was sent on July 21, 2009 and this report places the information in Denali's new reporting format.</small>	

1. A. In a few sentences, please describe the initial scope of your project.

Instructors Russ Penrod & Max Sager of the Alaska Operating Engineers were selected to teach the Heavy Equipment Program. Each represents 20+ years of experience in Heavy Equipment. The program focuses on multiple components such as a modified Heavy Equipment Operator, First Aid/CPR, North Slope Training Cooperative (NSTC), and OSHA-10 and elements of Grade Checking. Upon successful completion of the program, students will be able to be hired to work on community water/sewer, roads, and airport projects utilizing various types of equipment.

B. Did you modify the scope or the budget at any time during this project? If so, please explain.

Yes. SAVEC encountered price increases due to fuel charges. In addition, our food cost increased from \$60 per day to \$65 per day and we were required to place the students at the Ponderosa Inn towards the end of their training due to a scheduling conflict. As a result of receiving the grant late and receiving final information as to which communities received Department of Transportation funding, it forced us to reschedule the project from April 15th to May 5th. CH2MHill already had the dorms reserved for the last week of HEO training requiring us to move the students to the

students tried to rock it out (forward and reverse gears) damaging the drive line before the instructor could see they were having problems. Although the damage was small, the repair is not covered by our existing lease agreement since it only covers “normal maintenance and repair” and not “damage caused by student error”. For all these reasons, the HEO budget expense exceeded the award amount by \$10,718 or 5.6% of the awarded amount.

2. A. How many people did your original proposal intend to train? 20

B. How many people did you ultimately train? Please attach a final list of participants, their community, certification, and where they are employed.

The Heavy Equipment Operator Training Class started on May 5 and concluded May 24, 2008. Twenty students representing various communities were selected to participate in the training and 18 completed. The number of students, gender, and community represented at the beginning of the class are as follows:

<u>Number of Students</u>	<u>Gender</u>	<u>*Village</u>	<u>Number Completed</u>
3	Male	Akiachak	2
4	Male	Goodnews Bay	4
4	Male	Nightmute	4
7	Male	Emmonak	6
1	Male	Kongiginak	1
<u>1</u>	Male	Naknek	<u>1</u>
20			18

* Each community or an employer provided the student with a letter indicating their interest to hire them upon successful completion of the training program.

The planning for the class and selected participants was a joint effort between Alaska Works, TERO/Association of Village Council Presidents in Bethel, and the individual village councils. Information concerning the program was listed on SAVEC's web-site: www.savec.org (see below)



Through TERO, students were identified to participate. Each was required to provide a letter from a potential employer who would hire them after completing the Heavy Equipment Program. A

background check was completed to ensure a clean driving record with no DUI's in the last three years.

The training was conducted at the Southwest Alaska Vocational Educational and Educational Center by the Operating Engineers – Local 302. Russ Penrod & Max Sager were selected to be the instructors. Each represents 20+ years of experience in Heavy Equipment. The program offered multiple components such as a modified Heavy Equipment Operator, First Aid/CPR, North Slope Training Cooperative (NSTC), and OSHA-10 and elements of Grade Checking. Eighteen of the twenty students successfully completed the program of study. Two students were released the second week due to disciplinary reasons.

Twenty student trainees successfully received their American Red Cross First Aid/CPR and 18 received their North Slope and OSHA-10 certifications. Eighteen graduated with a Heavy Equipment Operator Certificate from SAVEC providing them with job entry competencies related to safe operation and maintenance of heavy construction equipment. Many of the graduates will be working on airport and/or water sewer projects within their communities.

The training took place under the supervision of Southwest Alaska Vocational and Education Center (SAVEC) located in King Salmon, Alaska, at a training pit provided by the Paug-Vic Development Corporation. Trainees received a combination of classroom and hands-on training on a variety of heavy equipment, including:

- Grader
- Bull Dozers
- Ripper Cats
- End Dump – On Road
- Excavators
- Backhoes
- Front End Loader – 966
- Front End Loader - 980

Each Trainee received a certificate of completion to document their training applications of skills learned. Curriculum for this class was based on material from the International Union of Operating Engineers.

Tests were administered at each stage of training and eighteen students successfully completed the full program out of 20 who started. However, the two who did not complete at least completed their First Aid CPR certification. In order to optimize individual trainee time on each type of equipment, the training was staggered as follows:

- Rubber Tire Techniques;
- Dozer Techniques;
- Grader Techniques; and
- Grade Checking.

SAVEC conducted training on OSHA, North Slope Training Cooperative (NSTC), and First Aid/CPR in addition to the Heavy Equipment and Grade Checking. The course curriculum used was as follows:

OSHA 10-Hour Course Outline (1 hour of each of the following):
Introduction to OSHA, OSHA Act/General Duty Clause 5(a)(1), Subpart C:

General Safety and Health Provisions, Competent Person

Subpart K: Electrical

Subpart M: Fall Protection

Subpart N: Cranes, Derricks, Hoists, Elevators, Conveyors

Subpart P: Excavations

Subpart E: Personal Protective and Life Saving Equipment

Subpart G: Signs, Signals and Barricades

Confined Spaces

Subpart O: Motorized Vehicles, Mechanized Equipment, and Construction Equipment

Subpart W: Rollover Protective Structures, Overhead Protection.

North Slope Training Cooperative (NSTC) Course Outline:

Alaska Safety Handbook – 2 Hours

Camps and Safety Orientation – 5 Hours

Personal Protective Equipment – 1.5 Hours

Hazcom – 1.5 Hours

Hazwoper Level One – 1 Hour

Environmental Excellence -- .5 Hour

Hydrogen Sulfide – 1 Hour

First Aid/CPR Course Outline (6 Hours):

Guidelines for Medic First Aid Providers

First Aid and the Law

Safe Approach and Use of Barriers

Emergency Medical Services/Emergency Occupation Plan

Initial Assessment

Assess/Focus Airway (Foreign Body Airway Obstruction, Leg Roll, Recovery Position)

Assess/Focus B Breathing (Rescue Breathing)

Assess/Focus C Circulation (CPR, Bleeding, Shock)

Introduction to emergency oxygen and Automated External Defibrillation Aids

Chain of Survival

Emotional Aspects of Providing First Aid

On-going Assessment

Care of Responsive Illness (Warning Signs, Exposure to Heat and Cold, No Warning Signs)

Mechanism of Injury

Care of Responsive Injured

Major Mechanisms (Head, Neck, Back Injuries – Painful, Swollen, or Deformed Limb

Physical Assessment

Emergency Moves

Each community or an employer provided the student with a letter indicating their interest to hire them upon successful completion of the training program.

C. If there is a variance between original and final, please explain.

Yes. We dropped two students from the program for non-compliance of our alcohol policy and class attendance.

3. Please tell us about lesson(s) learned during this project.

SAVEC continues to learn by the project each year. We have found that keeping the students busy seven days per week would be a better option for next year's training. Also, we would like to implement a drug screening prior to training and random alcohol testing during training. SAVEC has a zero tolerance policy for alcohol and drugs. Similar measures were implemented in our CH2MHill STEP Training Project.

Students continually come to SAVEC during the training requesting driver's license and behind the wheel training/testing. SAVEC will be implementing a driver's license program effective in January 2009 and would hope to incorporate as a pre-training course to HEO.

4. Please provide a minimum of one success story for this project.

Having a 90% completion rate was a major accomplishment. The majority of students will have immediate jobs this construction season as a result of the training. Each community or an employer provided the student with a letter indicating their interest to hire them upon successful completion of the training program.

5. Please attach a few photos with descriptive captions.



Students receive First Aid/CPR Training, Class Picture, and student learning how to dig ditches for sewage projects.



Students learn grade checking and how to construct roads. Many of the students will be working on community water/sewage projects and/or construction/renovating airports. Students learn basic equipment maintenance as part of their training.

